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WICHITA 2, KANSAS

GEOLOGICAL WELL REPORT

BRUNSON-SPINES

No. 49 JOHNSON

C N/2 N/2 SECTION 23-T24S-R12E

VIRGIL AREA

GREENWOOD COUNTY, KANSAS

By

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March 2, 1963

BRUNSON-SPINES
No. 49 Johnson
C N/2 N/2 Section 23-T24S-R12E
Virgil Area
Greenwood County, Kansas

Contractor: H & C Drilling Co.
Spud: 2-26-63
8-5/8" @ 110'
5-1/2" Oil String 1884', 75 Sacks
Total Depth: 1885'
Rotary Completion: 3-2-63

Brunson-Spines
302 Union Center
Wichita 2, Kansas

Gentlemen:

Following are the pertinent geological tops and an evaluation of the porosities encountered at the captioned well.

I arrived at the location at a depth of 1479 and witnessed the drilling from that point to total depth of 1885. Samples were examined from 950-1100, and 1400 to total depth. No drill stem tests were taken and the hole was not logged electrically before being cased.

Enclosed, herewith, is a plotted drilling time log from 950-1100 and 1400-1885, total depth, which also includes lithology, porous zones, tops and other pertinent data.

ELEVATION: 1136 K.B.

Base KANSAS CITY 1063 (+73)

SAND 1436-1445 Sandstone, gray clustered micaceous, mostly lime-cemented, poor porosity. Some fairly clean, porous sandstone, possible light oil staining.

CATTLEMAN SAND 1564 (-428)

1564-1574 Sandstone, medium grained, clustered, tightly lime-cemented. No apparent show of oil or gas.

MISSISSIPPIAN LIMESTONE 1730 (-594)

- | | |
|-----------|--|
| 1732-1738 | Chert, blue-gray vitreous, scattered crystalline limestone with fair porosity and stain. Good odor. |
| 1738-1747 | Dolomitic limestone, tan finely crystalline to sucrosic, mostly scattered fair porosity and staining. Good odor. |
| 1749-1755 | Dolomite, tan sucrosic. Good cavernous and intercrystalline porosity - completely stain. Good show of oil. |
| 1761-1770 | Dolomitic limestone tan to gray finely crystalline. Minor fine cavernous porosity and staining. |
| 1783-1787 | Limestone tan to light gray, mottled, coarsely crystalline. Scattered finely crystalline dolomitic limestone, possible minor porosity and stain. |

OSAGE(MISS.) 1830 (-694)

- | | |
|-----------|--|
| 1830-1885 | This is primarily a heavy chert section, both vitreous and weathered tripolitic chert. There are zones, particularly in the upper portion which carry sucrosic dolomite with definite oil staining; however, it is believed the section is non-commercial. |
|-----------|--|

TOTAL DEPTH 1885 (-749)

The subject well was drilled as a development well in the Virgil Area. Structurally, the hole appears normal on the top of the Mississippian. However, in relation to adjacent wells, the "pay zone" may be somewhat thinner than anticipated.

The hole was taken well into the Osage Mississippian to establish a true structural comparison with other deep tests in the vicinity and to also check reported "shows" in the section. It has been pretty well established, by this effort, that there is no great structural relief within the Mississippian at least on or near the crest of the Virgil structure.

Yours very truly,

T. G. WRIGHT
Consulting Geologist

